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Qu: report

Dr. R. Murphy

Prox to cause of Pain

Proximate cause of Pain

1813

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Among the various subjects interesting to the  
Medical Philosopher none are more so than  
the proximate cause of pain; yet, unfortunately,  
for the science of Medicine, it has been but  
little attended to - the cause of which I need not  
attempt to ascertain. I will only observe, it may,  
in part, result from our known ignorance of the  
Nature of the nervous power. It is, however,  
by no means justifiable on this principle, in  
as much as it affords no indication of similar  
difficulties to the investigation of the mode  
in which agents act in exciting the power  
constituting pain.

For the Proximate Cause of pain, I  
would assign, pressure upon some portion of the  
Nervous System.

To be satisfied, this hypothesis is correct,  
will only require some attention to the state  
of a part in which pain exists and the  
Modus operandi of the causes or means by  
which it is removed.

In most cases, pressure will be obvious.  
If, for instance, I compress my leg, with

my teeth, I find pain the immediate consequence of  
aid of, I do not press hard enough to produce disorg-  
-ization and thereby call in the aid of the circula-  
-tories, I find when I remain the prepared they  
cease. In more than nine tenths of the pain  
which animated Nature suffers the immediate  
agents of preparedness are the circulating fluids,  
Now are we surprised, that  
should be the case when we reflect upon the  
immense number of agents capable of causing  
some inequality in their distribution. They produce  
preparedness often from congestion & frequently  
induce the same by collapse - instances of  
the former we have in Spoplexy, pneumonia  
and all local inflammations &c. - of the latter,  
hemorrhages, Typhus &c.

The remedies for the first class all act  
by diminishing preparedness - Venesection, by  
abstracting a part of the stimulus of the  
heart and large arteries, diminishes  
the vis a tergo, and by lessening the volume  
of fluids in the large vessels opens the small  
ones, which are always more than proportionally

distinctly, to empty themselves. Cathartics, neutral  
salts, Antimonials, low dose, rest & C. produce  
ultimately the same effects, which we have ascribed  
to Venesection. Blistering act by enabling the small  
vessels to contract with more energy, thereby, to  
regain their natural dimensions, and by actually  
drawing off a part of the superabundant  
fluid. When applied to a violent part, they  
act by exciting a sympathetic or counter  
action, and here I should suppose them very  
little superior to subfuscant.

That blistering act in the mode I have ascribed  
to them is probable, from their peculiar  
good effects in Erysipelas, and other superficial  
local inflammation, when relaxing measures,  
as poultices, do harm.

Prepare from collapse as in typhus, when  
from its being general and not very great  
we find much anxiety restlessness &c.  
requires not only stimuli but nutrition.  
Here we should certainly use different agents.

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as different symptoms may indicate, if  
Typhus delirium supervene, it should  
be removed by opium which determines  
more to the head than most other stimulants.  
I will take the liberty of mentioning that  
it <sup>is</sup> probable Typhus delirium may occur  
when there is in the system or sufficiency  
of blood to prevent it, were it equally distributed  
or it may be of a more alarming nature  
when there is not a quantum sufficit.  
The it be equally distributed. Hence some  
Judgment may be necessary in the choice  
of medicines or remedies.

It is given the agency of the  
circulating fluids. (The weakest parts are the  
first to suffer) and the viscera so often  
seat of disease: in the acute state of  
which we find copious depletion so  
often indispensably necessary.

In further support of the idea I  
will mention that we always

And pain in proportion to the degree of pressure (allowing it to be sufficient to cause pain, and not to transcend the grade which would destroy sensibility.)

In phlegmonous inflammation we observe pain to be more acute as pressure increases, and just before suppuration takes place, when the vessels are distended almost to their plus ultra causing great pressure, more especially on the nerves of their coats, which have incipently their fibres approximated in consequence of distention, we find the pain very great, which quickly subsides when from the resection of pus, now deposited under the skin in the cavity of the cellular membrane the vessels regain <sup>their</sup> proper dimensions. But should matter be formed under tendinous fascia which can not yield we find the pain very violent from the pressure still continuing. Here a surgical operation should remove the pressure — We also find pain so legamentous & tendinous parts more severe

than that of Muscular portions of the  
Digestion, when it does occur ~~than~~

These being insensible in a sound state,  
also favouring the idea, because they  
are insensible only from the difficulty  
of applying pressure, the nerves supplying  
them being so small as to be difficult  
to compress; and very little to favour it,  
for they possess very little contractility and  
their vessels being so small as to be incapable  
of any speedy congestion, yet they congest  
does always take place before they become  
inflamed or painful, which causes great  
pressure from this pressure being increasing;  
For the same reason pain & inflammation  
in these parts are hard and tedious  
to remove - In cases of ruptured  
tendons we are told that a burning  
sensation is all that is perceived at  
first - This arises from slight compression  
of their very minute nerves



never too we find the burning sensation

Very common in Dyspepsia and other  
inflammations situated near the surface  
of the body where the nerves are very much  
The sensation peculiar to heat depends on  
caloric readily producing this kind of  
pressure - Hence too the sensation of cold  
is for a moment very much like that of  
heat - But carry these to a more  
intense degree, from the agency of the  
Circulating fluids, or they will both be  
confounded with pain from other causes.  
Pain in the teeth is more severe (taking  
into consideration the quantum of nerve  
acted upon, as should be done) than  
that from almost any other source,  
because the nerve here being surrounded  
by a hard bony wall which cannot  
yield must suffer immense compression.  
The passing of gall stones, urinary calculi &c.

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give extreme purpose

I will not here multiply Cases, which  
might be done ad infinitum; nor  
they necessary, for should any be disposed  
to adopt the idea, they can not be at any  
loss to see how many are the agents and how diverse  
their Modus operandi in causing & removing  
purpose - I will only add, I can not perceive  
any case of pain, either direct or sympathetic  
Mechanical or otherwise, which may not  
be as plausibly accounted for on this,  
on any other principle, but should it be  
opposed to better light exhibit privately  
vulnerable to be defended, I will promptly  
and with pleasure surrender it at discretion.

I am fully aware that I have observed  
nothing like Erythema - that I have taken too  
much perhaps for granted - that I  
omit many things almost inseparably

uncertain with the subject and supplied their  
place with others very little to the  
purpose — that the orthography ~~syntaxis~~  
and especially the almost illegible scrawl  
render all the kindly liberality com-  
parably useless here & now. However,  
there, I hope, it will receive when it is  
recalled, that it is certainly the legitimate  
*Infans neceputatis* —

December 1st 1813

*[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page. The text is written in cursive and spans most of the page.]*

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